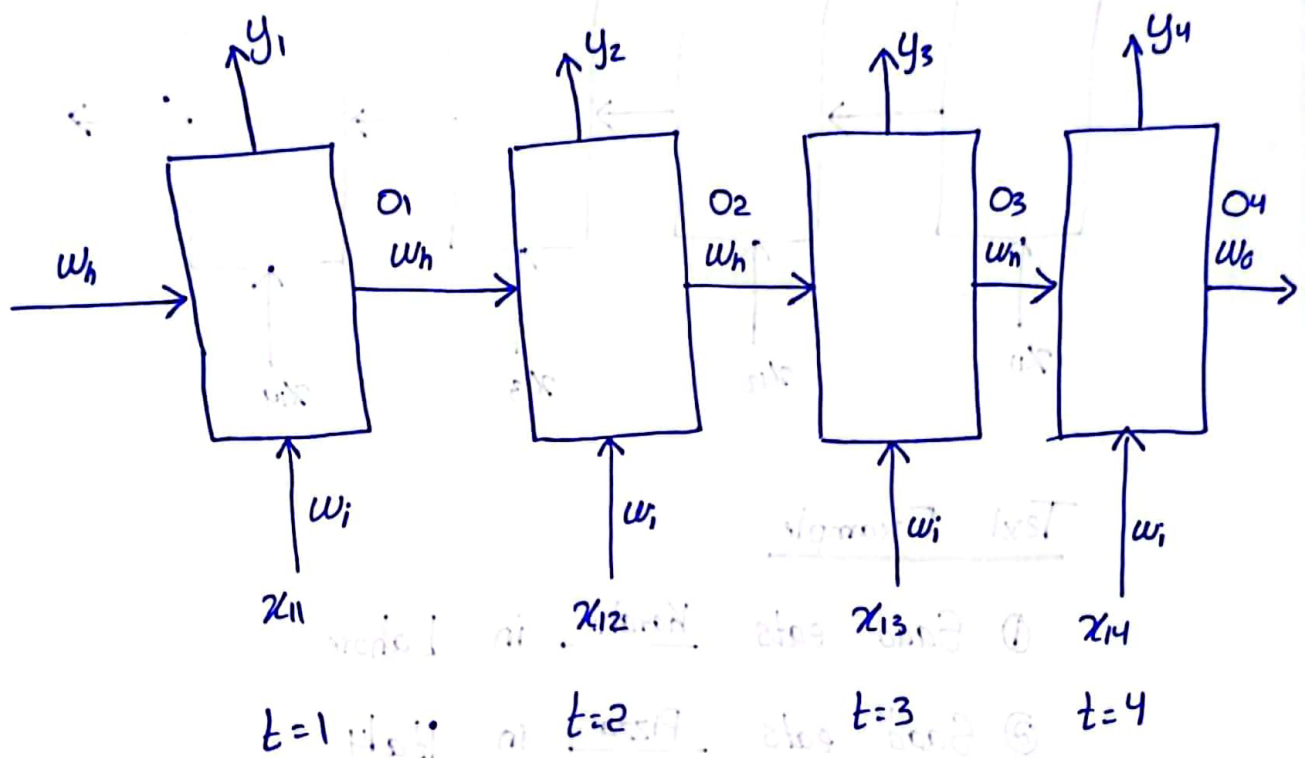


# Bidirectional RNN

## → Basic RNN



## > Types of RNN

- One to Many

Image Captioning

- Many to One

Sentiment Analysis

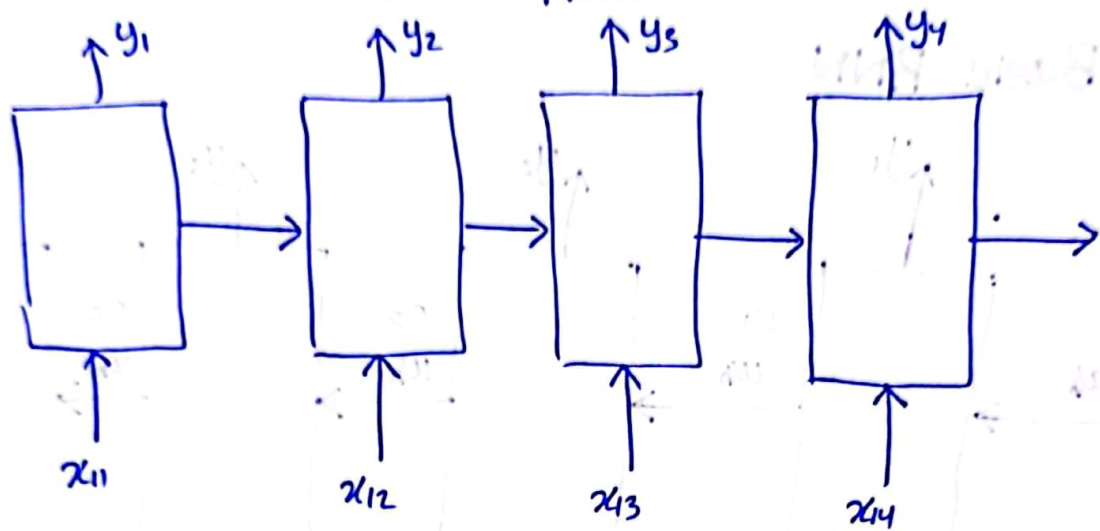
- Many to Many

Machine Translation

- One to One

Classification of Images

## > Problem with Basic RNN



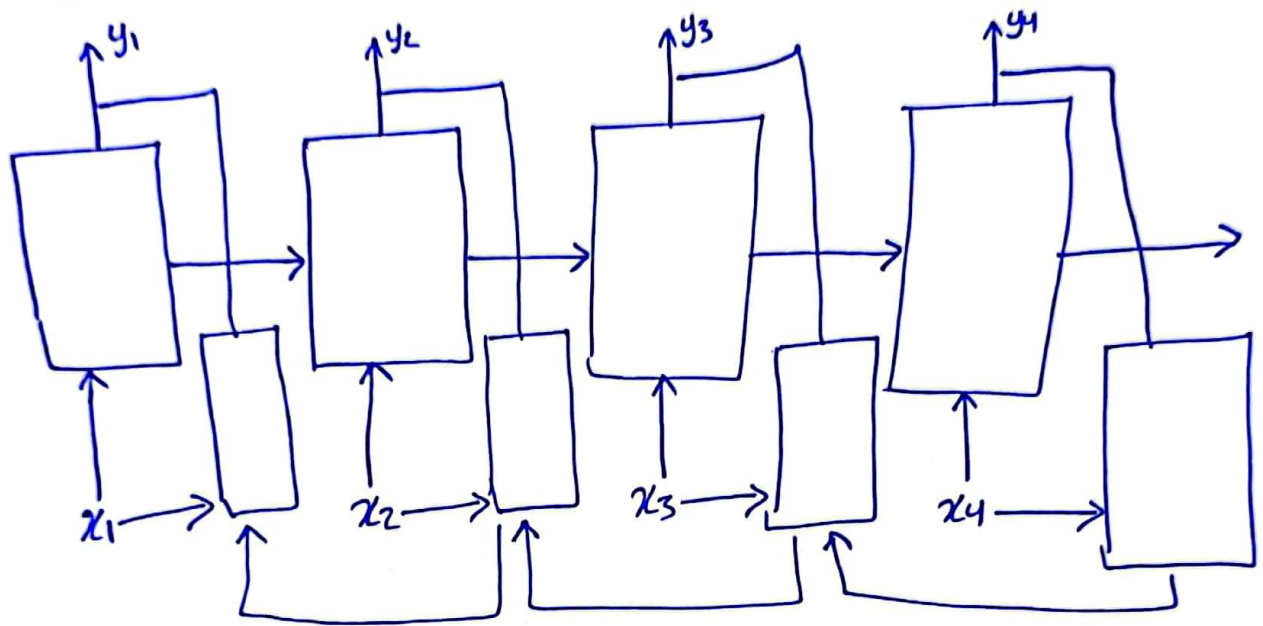
### Text Example

① Saad eats Karahi in Lahore

② Saad eats Pizza in Italy

Both "Karahi" and "Pizza" needs to be dependent on previous words and next words to be predicted. But in case of basic RNN the predicted words are only dependent on previous words

## → Bidirectional RNN



### Text Examples

① Saad eats Karehi in Lahore

② Saad eats Pizza in Italy

The issue of predicting words in basic RNN,

It is solved in bidirectional RNN.